



THE HUNTER ST SYSTEM

Synthetic Turf Cooling & Cleaning

RESIDENTIAL & COMMERCIAL IRRIGATION

Built on Innovation®



TAKE YOUR PITCH TO THE NEXT LEVEL OF PLAYABILITY

Simple to specify, contractor-friendly to install, and easy to service and maintain, the Hunter ST system is the complete package of irrigation products perfectly suited for cooling, cleaning, flushing and preparing synthetic sports fields for play.

The enhanced STK-6V is the first and only cost-effective integrated solution designed to exceed the unique and specific needs of the synthetic turf irrigation market. The ST System features total top access to all irrigation components making maintenance simple while keeping the surface intact, playable and safe.

The exclusive IBS Infill Barrier System accommodates every field surface configuration including infill turf, short non-infill turf, synthetic running track, and

in-concrete installations. The robust and reliable manifold features 80 mm galvanized ductile iron components with heavy-duty grooved (Victaulic™ type) fittings.

Also included is a slow-opening, low pressure loss control valve, isolation valve, drain valve, quick coupler valve, and the powerful ST-1600B long-range gear-driven rotor.

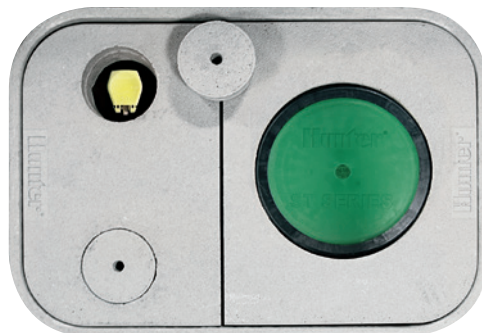
Inside the ST System

Open access to all components for ease of ongoing maintenance



From the top

Smooth and safe surface area with quick-access ports





THE HUNTER ST SYSTEM is the first and only cost-effective integrated solution designed to exceed the unique and specific needs of the synthetic turf irrigation market.

STK-5V/STK-6V FOR APPLICATIONS UP TO 50 METRE RADIUS

Radius: **32.5 to 50.3m**
Flow: **21.8 to 74.2m³/hr**
364 to 1,237 l/min
Inlet: **50 mm BSP (2")**

FEATURES

- Nozzle choices: 6
- Standard nozzle: #20
- Nozzle range: #16 to #26
- Nozzle trajectory: 22.5°
- Gear-drive: Isolated, grease lubricated gear-drive
- Factory installed rubber logo cap (ST-1600B)
- Arc Adjustment: Moveable stops (left and right) arc adjustment
- Arc setting: 40° to non-reversing 360°
- Ratcheting nozzle turret
- Telescoping rubber infill barrier on riser
- Adjustable speed of rotation: 0 to 65 seconds (180° at 8 bar; 800 kPa)
- Warranty period: 5 year component part
- Internal construction: Brass, stainless steel and ball-bearings
- Optional Infill Barrier System (ST-1600B)

OPERATING SPECIFICATIONS

- Radius: 32.5 to 50.3 m
- Flow: 21.8 to 74.2 m³/hr; 364 to 1,237 l/min
- Operating pressure range: 4.0 to 8.0 bar; 400 to 800 kPa
- Precipitation rate: 60 mm/hr approximately



ST-1600B

Overall height: 57 cm
Pop-up height: 13 cm
Diameter: 36 cm
Inlet size: 50 mm BSP (2")*

* Use P/N 241400 adapter to 50 mm (2") PVC pipe



ST-1600BR

(Riser Mounted Model)
Overall height: 22 cm
Diameter: 21 cm
Inlet size: 50 mm BSP (2")*

* Use P/N 241400 adapter to 50 mm (2") PVC pipe

ST ROTOR

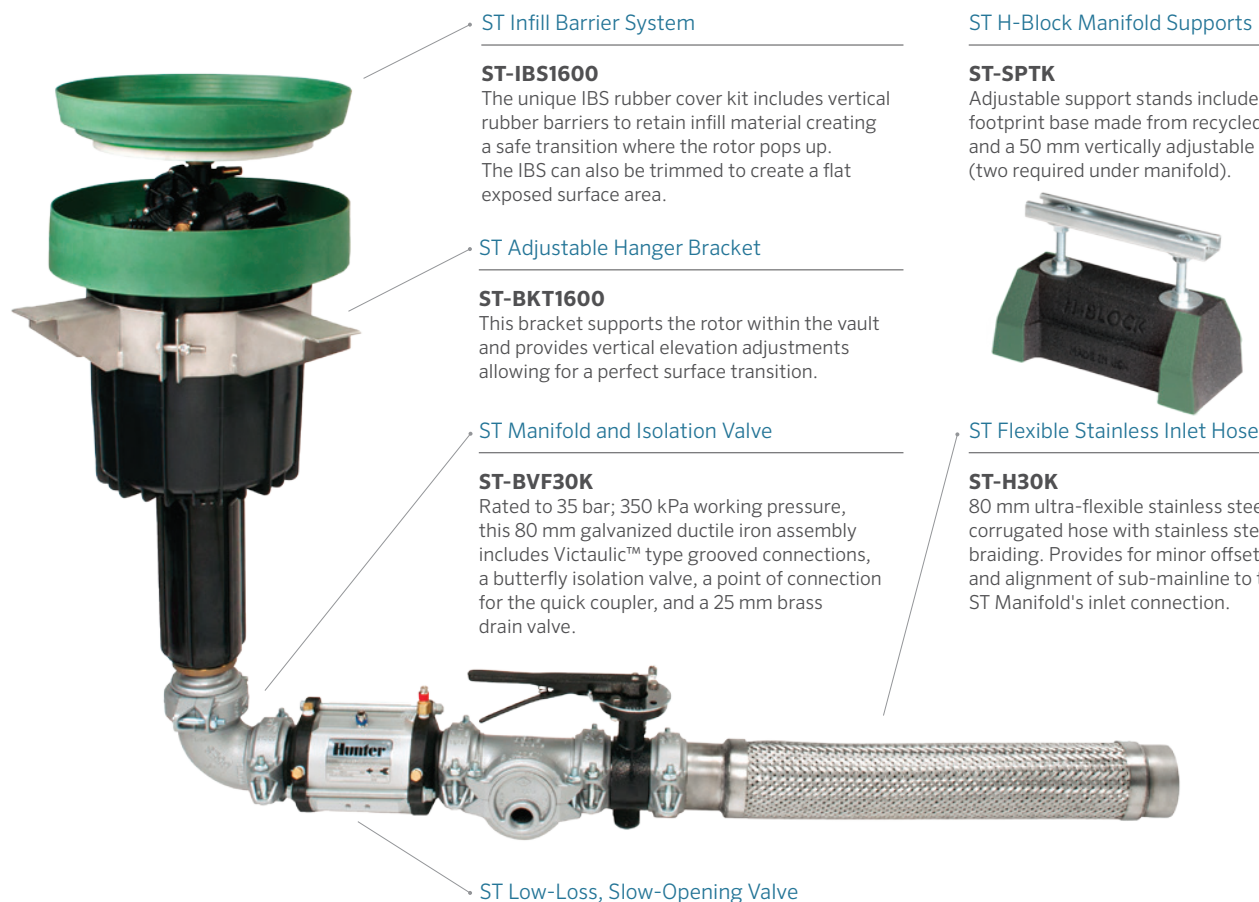
Model	Description
ST-1600-B	13 cm pop-up, top service, adjustable arc, stainless steel riser, BSP inlet threads, and 6 nozzles
ST-1600-HS-B	High-speed ST-1600B, up to 65 seconds for 180° at 8 bar; 800 kPa
ST-1600-BR	Riser mount, adjustable arc, BSP inlet threads and 6 nozzles
ST-1600-HS-BR	High-speed ST-1600BR, up to 65 seconds for 180° at 8 bar; 800 kPa

KIT CONFIGURATIONS

STK-5V / STK-6V COMPONENTS

Kit Description	STK-5V	STK-6V
For specification ease and to ensure the correct product is installed, the ST System is available in kit configurations. Items are ordered individually.	ST-1600 Block System (remotely located valve)	ST-1600 VAH System (valve adjacent to head)
ST Rotor: Synthetic turf rotor	ST-1600B	ST-1600B
ST IBS: Infill barrier system rubber cover kit	ST-IBS1600	ST-IBS1600
ST BKT: Rotor vault hanger & elevation adjustment bracket	ST-BKT1600	ST-BKT1600
ST Vault: Vault with 4-piece polymer-concrete cover set	ST-243636B	ST-243636B
ST Manifold: 80 mm Fittings, isolation valve and drain valve	ST-BVF30K	ST-BVF30K
ST Valve: 80 mm valve with remote on-off-auto selector	—	STV30KV
ST Variable Opening Speed Valve: Regulates ST-V30-KV opening speed	—	ST-NDL-K
ST Support: Adjustable manifold support (2 required)	ST-SPTK	ST-SPTK
ST Inlet Hose: Flexible stainless steel braided alignment hose	ST-H30K	ST-H30K
BSP Inlet Adapter: 80 mm NPT male x BSP female adapter	855000	855000
BSP Drain Valve Adapter: 25 mm NPT male x BSP male adapter (2 req'd)	855100	855100
Quick Coupler Valve: 25 mm BSP inlet 32 mm outlet for key	HQ5RC-BSP	HQ5RC-BSP

STK-6V ROTOR AND MANIFOLD ASSEMBLY



ST ROTORS HAVE MANY USES

While ST Rotors are specifically designed for cleaning and cooling synthetic turf sports fields, they are also great for other applications such as pastures, horse arenas, dust control and even casual natural turf areas.



ST VAULT TOTAL TOP SERVICEABILITY

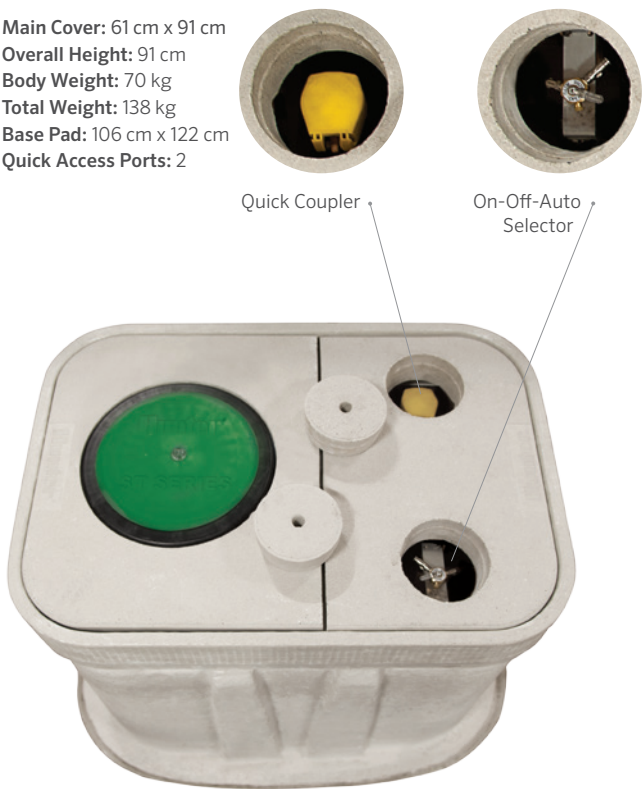
Heavy-duty tapered fiberglass and polymer-concrete construction with pre-cast holes for rotor, quick coupler valve, and remote on-off-auto selector manifold assembly.

The ST-V30-KV valve kit includes a remotely located On-Off-Auto selector and solenoid manifold assembly. These convenient features bring valve manual control functions and solenoid splice connections closer to the surface for easy access.

Quick couplers provide a convenient source of water for washing down spills and water-soluble paint. Integrated in-vault design eliminates the need for additional quick coupler enclosures.

ST-243636-B: includes 76 mm thick 4-piece PC cover set

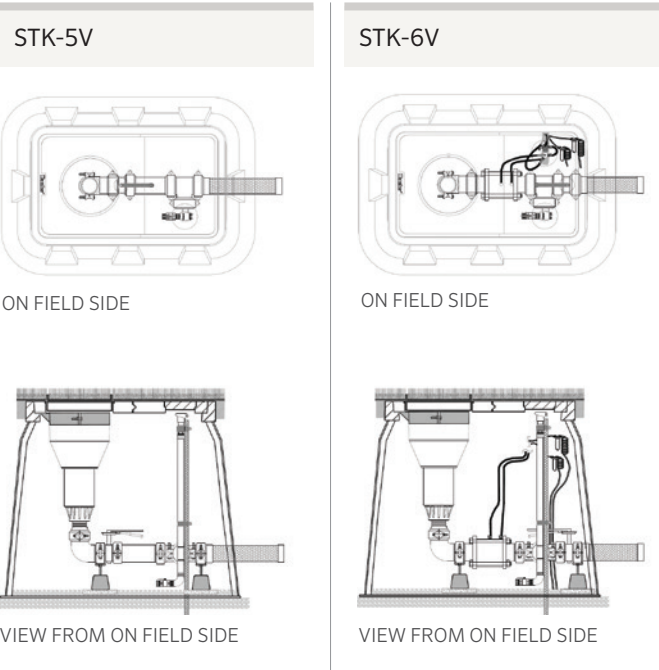
Main Cover: 61 cm x 91 cm
Overall Height: 91 cm
Body Weight: 70 kg
Total Weight: 138 kg
Base Pad: 106 cm x 122 cm
Quick Access Ports: 2



ST-1600 Rotor in Action



INSTALLATION DETAILS



ST-1600 NOZZLE PERFORMANCE DATA								
Nozzle	Pressure		Radius	Flow		Precip mm/hr		
	bar	kPa		m ³ /hr	l/min	■	▲	
16 ●	4.0	400	32.5	21.8	364	41.4	47.8	Black
	5.0	500	35.0	24.4	406	39.8	45.9	
	6.0	600	37.0	26.8	446	39.1	45.1	
	7.0	700	39.0	28.9	482	38.0	43.9	
	8.0	800	41.0	31.2	520	37.1	42.9	
18 ●	4.0	400	34.0	24.3	405	42.0	48.6	Black
	5.0	500	37.0	27.1	452	39.6	45.8	
	6.0	600	39.0	29.8	496	39.1	45.2	
	7.0	700	40.5	32.1	535	39.1	45.2	
	8.0	800	43.0	34.8	580	37.6	43.5	
20 ●	4.0	400	35.0	32.7	545	53.4	61.7	Black
	5.0	500	39.0	36.5	609	48.1	55.5	
	6.0	600	43.0	40.1	668	43.4	50.1	
	7.0	700	44.0	43.3	721	44.7	51.6	
	8.0	800	45.0	46.4	773	45.8	52.9	
22 ●	4.0	400	36.0	38.9	649	60.1	69.4	Black
	5.0	500	39.5	43.6	726	55.8	64.5	
	6.0	600	44.0	47.7	795	49.3	56.9	
	7.0	700	47.0	51.5	859	46.7	53.9	
	8.0	800	48.0	55.2	920	47.9	55.3	
24 ●	4.0	400	37.0	45.9	765	67.1	77.4	Black
	5.0	500	40.5	51.3	855	62.6	72.2	
	6.0	600	45.0	56.2	937	55.5	64.1	
	7.0	700	47.5	60.7	1012	53.8	62.2	
	8.0	800	48.7	65.0	1084	54.9	63.3	
26 ●	4.0	400	38.4	53.0	883	71.8	82.9	Black
	5.0	500	41.4	59.2	986	68.8	79.5	
	6.0	600	46.0	64.6	1077	61.0	70.4	
	7.0	700	48.7	69.7	1162	58.6	67.7	
	8.0	800	50.3	74.2	1237	58.7	67.8	

Note: All precipitation rates calculated for 180° operation.
For precipitation rate of a 360° sprinkler, divide by 2.

ST VAULT COVER OPTIONS



SHORT-PILE NON-INFILL SYNTHETIC TURF



LONG FIBER INFILL SYNTHETIC TURF



PERIMETER IN-CONCRETE APPLICATIONS



SYNTHETIC RUNNING TRACK APPLICATIONS



The unique IBS rubber cover kit includes a cupped area for attachment of infill-type synthetic turf as well as vertical rubber barriers to retain infill material, creating a safe transition where the rotor is retracted. The IBS can also be trimmed to create a flattened area for attachment of short-pile non-infill turf, running track material, or the new ST-FRP1600 simulated concrete cover. All four options provide a clean and safe installation that is unmatched in the industry.

SIMPLE TO SPECIFY *Easy to Install & Maintain*

With a single model reference for all components, the ST System is designed as an all-in-one solution that is simple to specify and easy to install and maintain. Clear and specific instructions help ensure that the correct products are installed properly.

Design enhancements include a shorter vault, an adjustable bracket for hanging and adjusting the rotor to grade, adjustable manifold assembly stands, and a new 80 mm galvanized ductile iron assembly with heavy-duty grooved fittings for ease of servicing. The isolation valve and point of connection for the quick coupler are now inside

the vault and provided with the field-assembled manifold kit. The vault also includes a drain valve for easier servicing and winterization.

All components are contained in a construction-grade vault for total top service and easy maintenance. Total access to all components allows servicing while keeping the surface intact, playable and safe. The exclusive IBS Infill Barrier System accommodates every field surface configuration including infill turf, short non-infill turf, synthetic running track, and in-concrete installations.

Learn more. Visit hunterindustries.com/st or talk to your local Hunter Area Manager.



Helping our customers succeed is what drives us. While our passion for innovation and engineering is built into everything we do, it is our commitment to exceptional support that we hope will keep you in the Hunter family of customers for years to come.

A stylized, handwritten signature in white ink, appearing to read "G. R. Hunter".

Gregory R. Hunter, President of Hunter Industries

Website hunterindustries.com | **Customer Support** 760-744-5240 | **Technical Service** 760-591-7383

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